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AGRICULTURE
BY
CLIMATE ZONES
AND
LANDS

SNOW SURVEYS

and WATER SUPPLY OUTLOOK for

ALASKA



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE
Collaborating with
ALASKA SOIL CONSERVATION DISTRICT

AS OF
APR. 1, 1978

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: *SPRINGTIME ON THE KENAI PENINSULA*

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



FEDERAL - STATE - PRIVATE
SNOW SURVEYS
AND
WATER SUPPLY OUTLOOK
FOR
ALASKA

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CHANDALAR LAKE SNOW COURSE

ALASKA SUMMARY
as of
APRIL 1, 1978

Snowfall during March was mostly near average or below. The Tanana Valley and Upper Cook Inlet regions were the driest, relatively speaking.

Prince William Sound, Kenai Peninsula, and Brooks Range received an above average increment for the month. The latter two have the heaviest snow cover in the state, percentagewise. A very meager snow cover exists throughout southwest Alaska, up to and including the Fairbanks area. The regional summaries are as follows:

KOYUKUK DRAINAGE

A wide variation of snow cover remains in the Koyukuk region. The Brooks Range is still well above average, by up to 40 percent, while the valleys are about 30 percent below.

UPPER YUKON DRAINAGES

Snowfall in this broad area was normal for March in the flats and above average in the mountains. The season's snow cover now ranges from a low of 30 percent below in the Black River to 25 percent above at Arctic Village. Eagle is right at average for April 1, while Fort Yukon is 15 percent below.

The word from Canada on the Yukon headwaters is snowpack way below normal, and ice unusually thick as a result, even though temperatures continue above average.

KUSKOKWIM

The Kuskokwim headwaters are about 30 percent below average while a bare remnant snow cover is all that is left in the broad valleys to the south-west.

TANANA-CHENA DRAINAGES

Very little snow fell in this region during March. The Tok area is now 40 percent below normal, as is much of the Chena Basin. Delta Junction is still slightly above average. Streamflow volume between April and July is expected to be 35 percent below normal through Fairbanks.

COPPER DRAINAGE

Most of the basin received near-normal amounts of snowfall last month. The pack is still highly variable, much the same as it was for March 1. The extremes are at Mentasta Pass and Sanford River, 40 percent below and 20 percent above, respectively.

SUSITNA DRAINAGE

Very little change in the snow cover is noted here from conditions reported one month ago. The Upper Basin is near average most places. The Lower Basin is 30 percent below overall. An exception is Willow which is only 5 percent below normal.

MATANUSKA DRAINAGE

The Matanuska headwaters continue to show a near average snow cover, but its western tributaries could have a lot less as indicated by Independence Mine snow course, which is only half normal for April 1.

UPPER COOK INLET

March snowfall in Ship Creek was below average. The pack is now 5 to 15 percent below normal. Streamflow for the April - July period is forecast to be 55,000 acre-feet or seven percent below the 1963-77 average.

KENAI PENINSULA

The Peninsula continues to maintain a very heavy snowpack. Moose Pass and Turnagain Pass snow depths are 50 and 60 percent above average, respectively, and even ahead of last year's record amounts. However, these courses are below 1,000 feet elevation and not necessarily indicative of higher country. It was the extremely heavy snowpack high in the mountains that kept the Kenai River at flood stage all last summer. The high mountain snowpack this year appears to be much less, percentage-wise, than last.

PRINCE WILLIAM SOUND

This area received a near-average increment of new snow during March. The snow cover is now 10 to 20 percent below normal, up slightly from a month ago and half as much compared to last year.

SOUTHEAST

The snowpack around Juneau is 30 percent below normal. No other data is available from the region.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ^{2/}	Average ⁺
YUKON RIVER at Eagle	24,850	70%	April-July	Not Avail.	35,500
PORCUPINE RIVER near Ft. Yukon	6,000	86%	April-July	Not Avail.	7,000*
SALCHA RIVER near Salchaket	519	72%	April-July	552	721
CHENA RIVER at Fairbanks	364	65%	April-July	493	559
LITTLE CHENA RIVER near Fairbanks	63	67%	April-July	83	94
YUKON RIVER at Ruby	59,000	86%	April-July	Not Avail.	68,600
SHIP CREEK near Anchorage ^{1/}	55	93%	April-July	94	57
SOUTH FORK CAMPBELL CREEK at Canyon Mouth near Anchorage	12.4	96%	April-July	19.9	12.9

^{1/} Measured flow adjusted for diversion
^{2/} Provisional data, subject to revision
 * Estimated
 + 1963 - 1977

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Years of Previous Record
NAME	Number	Elevation				Last Year	Average ⁺	
AS OF MARCH 15, 1978								
TANANA-CHENA:								
Caribou Mine	55	1115	3/14	22a	4.6e	3.5e	5.3	11
Cleary Summit	64	2230	3/14	21a	4.1e	5.1e	5.8	14
Little Chena	62	2200	3/14	19a	3.7e	---	5.6	14
Lower Chena	59	2000	3/14	18a	3.4e	4.3e	---	1
Mt. Ryan	61	2950	3/14	20a	3.8e	6.1e	6.6	15
Munson Ridge	56	3100	3/14	35a	9.6e	6.4e	11.4	15
Teuchet Creek	57	1640	3/14	19a	3.7e	4.2e	---	1
Upper Chena	58	3000	3/14	21a	4.4e	6.4e	8.0	9
AS OF APRIL 1, 1978								
KOYUKUK DRAINAGE:								
Anaktuvuk Pass	75	2100	3/28	27	5.8	---	4.1	7
Bettles Field	74	640	3/27	28	5.2	7.0	7.4	11
Coldfoot	109	1000	3/28	33	8.1	5.7	7.1	7
Dietrich River	110	1550	3/28	22	4.6	4.7	4.6	7
Lake Todatonten	73	980	3/27	21	3.7	5.8e	5.5	10
Prospect Creek	108	980	3/28	29	7.2	6.4	6.5	7
Table Mountain	111	2200	3/28	25	6.1	5.6	4.4	4
YUKON DRAINAGE:								
Arctic Village	78	2300	3/29	27	4.6	5.9	3.7	14
Black River	84	650	3/29	17	3.0	7.3	4.5	12
Boundary	90	3300	3/30	21a	4.1e	4.7e	4.8	10
Chandalar Lake	76	2040	3/28	25	4.0	5.1	4.0	12
Chicken Airstrip	91	1650	3/30	13	2.2	2.6	3.0	11
Circle City	85	600	3/29	23	4.1	5.1	4.5	12
Circle Hot Springs	86	860	3/28	21	4.1	6.9	5.4	3
Coleen River	80	1100	3/29	16a	2.7e	3.8e	3.0	12
Dempsey Creek	87	950	3/30	19a	3.3e	5.6e	4.4	8
Eagle Village	89	900	3/30	22	4.2	3.9	4.3	11
Five Mile	106	400	3/28	24	5.1	6.2	5.2	7
Fort Yukon	83	430	3/28	18	3.3	5.5	3.9	12

a - aerial marker reading e - estimated

+ For period of record

SNOW

SNOW			THIS YEAR			PAST RECORD		
DRAINAGE BASIN and/or SNOW COURSE			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		Years of Previous Record
NAME	Number	Elevation				Last Year	Average †	
YUKON DRAINAGE continued:								
Koness Lake	79	1790	3/29	20	3.3	4.0	3.1	11
Log Cabin (B.C.)	105	2880	3/29	35	9.0	14.3	13.2	18
Mt. Fairplay	92	3100	3/30	14a	2.7e	3.1e	3.3	7
Nation River	88	3050	3/30	20a	3.9e	6.8e	6.6	6
Squaw Lake	77	2150	3/28	21a	3.5e	5.1e	4.0	10
Thirty Mile	107	1300	3/28	32	7.3	8.6	7.8	4
Venetie	82	610	3/28	21a	3.4e	4.4e	3.1	12
Vundik Lake	81	950	3/29	16a	2.9e	4.0e	3.0	11
KUSKOKWIN DRAINAGE:								
Farewell Lake	70	1090	3/27	16	2.3	2.9	3.5	11
Lake Minchumina	71	730	3/27	18	3.0	2.6	4.3	11
TANANA-CHENA:								
Big Delta	52	980	3/30	18	3.5	1.6	2.7	18
Bonanza Creek	66	1150	4/3	17	2.4	3.6	4.6	10
Caribou Creek	68	1440	3/30	15	2.7	4.0	5.1	8
Caribou Mine	55	1115	3/27	24	5.0	4.4	5.9	12
Caribou Snow Pillow (formerly Poker Creek)	69	1025	3/30	14	2.6	3.5	4.8	8
Cleary Summit	64	2230	3/27	21	4.0	6.0	6.9	18
Colorado Creek	63	750	3/27	16	3.0	3.8	5.2	11
Fielding Lake	49	3000	3/31	50	13.7	15.5	11.6	16
Fort Greely	50	1420	3/31	16	3.6	1.2	3.5	11
French Creek	53	2010	3/30	22	4.5	3.8	6.7	16
Granite Creek	51	1240	3/30	16	3.4	2.4	3.3	10
Haystack Mountain	67	1950	3/30	23	4.3	5.2	7.0	8
Little Chena Ridge	62	2200	3/27	19	3.7	6.6	5.9	16
Little Chena Slope	NEW	1460	3/27	20	3.7	---	---	0
Little Chena Bottom	NEW	1100	3/27	16	3.1	---	---	0
Little Salcha	54	1500	3/30	17	3.5	2.6	5.6	16
Lower Chena	59	2000	3/27	18	3.5	5.2	---	1
Mentasta Pass	47	2430	3/30	19	3.7	9.6	6.2	16
Monument Creek	60	1900	3/27	20	4.3	---	5.0	3
Mt. Ryan	61	2950	3/27	19	3.8	---	7.7	15
Munson Ridge	56	3100	3/27	37	10.3	7.8	13.8	16
Teuchet Creek	57	1640	3/27	20	3.6	---	4.1	4
Tok Junction	46	1650	3/30	12	2.1	3.2	3.4	18
Upper Chena	58	3000	3/27	23	4.4	7.8	8.9	9
Wien Lake	72	1020	3/27	17	3.0	3.4	4.2	10
Yak Pasture	65	540	3/27	18	3.4	4.1	4.3	18
COPPER RIVER:								
Haggard Creek	48	2540	3/31	26	5.9	8.7	6.1	13
Little Nelchina	31	4160	4/1	27a	5.7e	7.0e	5.0	10
Mankomen Lake	45	3050	4/1	27	5.5	10.9	7.0	11
St. Anne Lake	28	1990	3/30	21	4.2	4.4	4.8	14
Sanford River	27	2280	3/30	27	6.0	5.5e	5.0	11
Tsaina River	35	1500	3/29	46	12.9	23.8	15.2	6
Worthington Glacier	36	2400	3/29	58	18.6	38.5	20.6	20

a - aerial marker

e - estimated

+ For period of record

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Years of Previous Record
NAME	Number	Elevation				Last Year	Average †	
<u>MATANUSKA-SUSITNA:</u>								
Alexander Lake	18	200	4/1	31	7.7	14.6	10.6	14
Bald Mountain Lake	23	2150	4/1	22a	5.8e	13.0e	7.8	14
Chelatna Lake	20	1650	4/1	38a	8.7e	10.1e	10.2	12
Clearwater Lake	26	3100	4/1	26	6.0	5.0	5.2	13
Devils Canyon	121	1350	4/1	22a	4.6e	9.6e	---	1
Fog Lakes	24	2250	4/1	18	3.5	7.4e	6.2	8
Independence Mine	33	3300	3/30	35	10.0	25.1	20.3	11
Lake Louise	29	2400	4/1	21	4.0	4.5	4.4	14
Monahan Flat	25	2710	4/1	32	7.0	9.6	6.6	14
Oshetna Lake	30	2950	4/1	18	3.1	4.3	3.7	14
Peters Hills	21	2010	4/1	44a	11.0e	20.4e	16.2	9
Sheep Mountain	34	2900	3/29	21	4.9	7.6	5.2	6
Skwentna	19	160	4/1	34	8.2	12.7	10.1	11
Talkeetna	22	350	4/1	22	5.7	8.7	8.2	11
Willow Airstrip	32	150	4/1	26	6.1	9.0	6.5	13
<u>UPPER COOK INLET:</u>								
Arctic Ski Bowl	5	3000	4/4	25	6.5	16.5	12.5	14
Arctic Valley #1	1	500	4/2	11	3.1	1.0	2.4	14
Arctic Valley #2	2	1000	4/2	17	4.8	1.3	2.8	14
Arctic Valley #3	3	2030	4/2	21	5.1	8.3	5.7	14
Arctic Valley #4	4	2330	4/4	18	4.3	8.5	6.4	14
Bird Creek	8	2350	3/28	47	15.5	21.1	16.8	11
Indian Pass	7	2350	3/28	56	18.5	35.0	21.1	11
McArthur	17	120	4/1	38a	13.3e	18.7e	19.4	14
Mt. Alyeska	10	1200	3/25	138	49.7	54.9	35.9	5
Ship Creek	6	1750	3/28	32	9.9	11.7	10.6	11
South Campbell Creek	9	1200	3/28	24	5.8	5.9	7.5	5
<u>PRINCE WILLIAM SOUND:</u>								
Lowe River	37	550	3/29	42	12.7	23.5	15.6	6
Valdez	38	50	3/29	40	13.3	28.5	18.8	6
<u>KENAI PENINSULA:</u>								
Bertha Creek	11	850	3/31	73	23.4	20.9	14.5	8
Bridge Creek, Lower	16	1100	4/3	46	14.3	15.4	12.4	6
Bridge Creek, Upper	15	1300	4/3	45	14.2	17.3	13.2	6
Demonstration Forest		780	4/3	35	10.6	8.6	---	1
Jean Lake	14	620	3/31	14	4.0	2.0	3.4	8
Kenai Summit	12	1390	3/31	49	14.2	14.6	11.8	8
Moose Pass	13	700	3/31	23	8.0	1.6	5.4	8
<u>SOUTHEAST ALASKA:</u>								
Cropley Lake	94	1650	3/31	70	22.7	32.0	---	1
Douglas Ski Bowl	93	1640	3/31	84	28.3	40.7	42.3	10
Eagle Crest	95	1000	3/31	47	17.4	16.1	---	1
Fish Creek	96	500	3/31	23	8.3	3.8	---	1
Harriet Top	102	2000	N O S U R V E Y			---	65.3	3
Hunt Saddle	103	1500	N O S U R V E Y			---	55.4	3
Lake Shore	104	660	N O S U R V E Y			---	34.7	3
Speel River	98	280	3/30	70	26.8	36.4	36.2	13

a - aerial marker

e - estimated

+ For period of record

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD		Years of Previous Record
NAME	Number	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	Years of Previous Record	
						Last Year	Average †	
WYOMING PRECIPITATION GAGES			DATE		INCREMENT SINCE LAST READING		ACCUMULATIVE TOTAL	
<u>KOYUKUK:</u>								
Atigun	123	4900	9/14		INITIAL READING			
			10/2		2.5		2.5	
			11/7		2.1*		4.6	
			2/27		1.4		6.0	
			3/29		0.9		6.9	
Chandalar Shelf	122	3400	9/14		INITIAL READING			
			10/2		1.4		1.4	
			11/7		2.0		3.4	
			2/26		3.0		6.4	
			3/29		0.7		7.1	
<u>NORTH SLOPE:</u>								
Barrow	115	15	9/30		INITIAL READING			
			3/16		3.0*		3.0	
Barter Island	117	15	10/1		INITIAL READING			
Kavik River	118	200	9/30		INITIAL READING			
Jago River	121	550	10/1		INITIAL READING			
Meade River	116	200	9/30		INITIAL READING			
			4/8		2.9*		2.9	
Prudhoe Bay	114	30	9/30		INITIAL READING			
			11/22		1.9		1.9	
			3/3		1.4		3.3	
Sagwan	113	1000	9/4		INITIAL READING			
			10/2		1.2		1.2	
			11/7		1.0		2.2	
			2/27		1.0		3.2	
			3/29		0.2		3.4	
Toolik River	112	3100	9/11		INITIAL READING			
			10/2		0.8		0.8	
			11/7		1.0		1.8	
			2/27		0.9		2.7	
			3/29		0.4		3.1	
<u>SEWARD PENINSULA:</u>								
Candle	119	20	10/31		INITIAL READING			
			1/17		1.1		1.1	
*Gage opening bridged over by snow								





MAP NO.	COURSE NAME	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
1	Arctic Valley #1	57°30'N	148°30'W	3,4	a
2	Arctic Valley #2	57°33'N	148°15'W	3,4	a
3	Arctic Valley #3	58°05'N	145°35'W	3,4	a
4	Arctic Valley #4	57°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	67°23'N	143°45'W	3,4	a
7	Indian Pass	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	55°29'N	144°39'W	3,4	a
12	Kenai Summit	66°06'N	141°48'W	3,4	a
13	Moose Pass	55°25'N	141°40'W	3,4	a
14	Jean Lake	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	64°05'N	141°45'W	3,4,7	a
17	McArthur	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	58°16'N	134°27'W	3,4,5	b
19	Skwentna	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	56°46'N	132°56'W	2,3,4,5	b
26	Clearwater Lake	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	55°29'N	131°37'W	3,4,5	b
28	St. Anne's Lake	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	55°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	56°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	56°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	57°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	57°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	57°58'N	149°45'W	2,3,4,5	i
37	Lowe River	58°37'N	149°26'W	7	d
38	Valdez	59°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	71°20'N	156°40'W	7	h
41	Wolverine Glacier C	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	70°08'N	143°37'W	7	h
43	Gulkana Glacier B	69°30'N	147°00'W	7	h
44	Gulkana Glacier C	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	65°40'N	162°27'W	3,4	a,f
46	Tok Junction	69°42'N	143°36'W	7	h
47	Mentasta Pass	68°05'N	149°29'W	7	d
48	Haggard Creek	68°08'N	149°35'W	7	d
49	Fielding Lake	62°49'N	149°18'W	2,3,4,5	a,c
50	Ft. Greely				
51	Granite Creek				
52	Big Delta				
53	French Creek				
54	Little Salcha				
55	Caribou Mine				
56	Munson Ridge				
57	Teuchet Creek				
58	Upper Chena	1, February 1, March 1, April 1,			
59	Lower Chena				
60	Monument Creek				
61	Mt. Ryan	now survey, as follows:			
62	Little Chena				
63	Colorado Creek				
64	Cleary Summit				
65	Yak Pasture	ngineering Lab			
66	Bonanza Creek				
67	Haystack Mtn.				
68	Caribou Creek				
69	Poker Creek				
70	Farewell Lake				
71	Lake Minchumina				
72	Wien Lake	r to:			
73	Lake Todatonten	r			
74	Bettles Field				
75	Anaktuvuk Pass				

AGENCIES AND ORGANIZATIONS COOPERATING IN ALASKA SNOW SURVEYS

CANADA

Department of Indian and Northern Affairs, Northern
Natural Resources and Environment, Yukon Territory

FEDERAL

Department of Agriculture
Forest Service
Institute of Northern Forestry
North Tongass National Forest
South Tongass National Forest
Chugach National Forest
Soil Conservation Service

Department of Commerce
NOAA National Weather Service

Department of Defense
U.S. Army Corps of Engineers
U.S. Army Cold Regions Research and Engineering Laboratory

Department of Interior
Bureau of Land Management
Geological Survey
Alaska Power Administration

STATE

Alaska Department of Fish and Game
Alaska Department of Highways
Alaska Department of Natural Resources, Division of Parks
Alaska Association of Soil Conservation Sub-districts
Alaska Soil Conservation District
University of Alaska
Alaska Experiment Station
Geophysical Institute

MUNICIPALITIES

Municipality of Anchorage

PUBLIC UTILITIES

Kodiak Electric Association

PRIVATE

Mt. Alyeska Resort, Inc.
NANA Regional Corporation

INDEX OF ALASKA SNOW COURSES

MAP NO.	COURSE NAME	COURSE NO. * *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *	MAP NO.	COURSE NAME	COURSE NO. * *	ELEV.	LAT.	LONG.	MEAS. DATES *	MEAS. BY *
1	Arctic Valley #1	49MM1	500	61°13'N	149°40'W	2,3,4,5	c	76	Ghandalar Lake	48SS1A	2040	67°30'N	148°30'W	3,4	a
2	Arctic Valley #2	49MM2	1000	61°13'N	149°37'W	2,3,4,5	c	77	Squaw Lake	48SS2a	2150	67°33'N	148°15'W	3,4	a
3	Arctic Valley #3	49MM3	2030	61°14'N	149°35'W	2,3,4,5	c	78	Arctic Village	45TT1A	2300	68°05'N	145°35'W	3,4	a
4	Arctic Valley #4	49MM4	2330	61°14'N	149°33'W	2,3,4,5	c	79	Koness Lake	44SS1A	1790	67°55'N	144°08'W	3,4	a
5	Arctic Ski Bowl	49MM5	3000	61°15'N	149°31'W	2,3,4,5	c	80	Goleen River	42SS1A	1100	67°44'N	142°28'W	3,4,7	a
6	Ship Creek	49MM7MPS	1750	61°08'N	149°28'W	2,3,4,5	a	81	Vundik Lake	43SS1A	950	67°23'N	143°45'W	3,4	a
7	Indian Pass	49MM8A	2350	61°05'N	149°29'W	2,3,4,5	a	82	Venetie	46SS1A	610	67°03'N	146°25'W	3,4,7	a
8	Bird Creek	49MM6A	2350	61°06'N	149°20'W	2,3,4,5,7	a	83	Fort Yukon	45RR1AM	430	66°35'N	145°15'W	3,4,7	a
9	South Campbell Creek	49NM11	1200	61°08'N	149°42'W	2,3,4,5	a	84	Black River	42RR1A	650	66°36'N	142°45'W	3,4,7	a
10	Mt. Alyeska	49LL15S	1200	60°57'N	149°05'W	2,3,4,5	a,b	85	Circle Gity	44QQ3A	600	65°50'N	144°05'W	3,4,7	a
11	Bertha Creek	49LL2	850	60°45'N	149°51'W	2,3,4,5	a	86	Circle Hot Springs	44QQ5	860	65°29'N	144°39'W	3,4	a
12	Kenai Summit	49LL3	1390	60°40'N	149°28'W	2,3,4,5	a	87	Dempsey Creek	41RR2A	950	66°06'N	141°48'W	3,4	a
13	Moose Pass	49LL4	700	60°31'N	149°30'W	2,3,4,5	a	88	Nation River	41QQ1a	3050	65°25'N	141°40'W	3,4	a
14	Jean Lake	50LL1	620	60°31'N	150°11'W	2,3,4,5	a	89	Eagle Village	41PP1A	900	64°08'N	141°08'W	3,4,7	a
15	Bridge Creek (UP)	51KK1	1300	59°42'N	151°28'W	3,4,5	a	90	Boundary	41PP3A	3300	64°05'N	141°27'W	3,4	a
16	Bridge Creek (LO)	51KK2	1100	59°40'N	151°32'W	3,4,5	a	91	Chicken Airstrip	41PP2A	1650	64°05'N	141°45'W	3,4,7	a
17	McArthur	52LL1A	120	61°00'N	152°00'W	2,3,4,5	a,c	92	Mt. Fairplay	42001a	3100	63°42'N	142°17'W	3,4,5	a
18	Alexander Lake	50MM1A	200	61°45'N	150°54'W	2,3,4,5	a,c	93	Douglas Ski Bowl	34JJ1	1640	58°16'N	134°27'W	3,4,5	b
19	Skwentna	51MM1A	160	61°58'N	151°12'W	2,3,4,5	a,c	94	Gropley Lake	34JJ2	1650	58°16'N	134°31'W	1,2,3,4	b
20	Chelatna Lake	51NN1a	1650	62°31'N	151°29'W	2,3,4,5	a,c	95	Eagle Grest	34JJ3	1000	58°17'N	134°32'W	1,2,3,4	b
21	Peters Hills	50NN1a	2010	62°31'N	150°57'W	2,3,4,5	a,c	96	Fish Creek	34JJ4	500	58°19'N	134°33'W	1,2,3,4	b
22	Talkeetna	50NN2	350	62°18'N	150°05'W	2,3,4,5	a,c	97	Upper Long Lake	33JJ2aS	1000	58°11'N	133°53'W	3,4,5,6,7	e
23	Bald Mtn. Lake	49NN1A	2150	62°15'N	149°45'W	2,3,4,5	a,c	98	Speel River	33JJ3A	280	58°09'N	133°43'W	3,4,5,6,7	e
24	Fog Lakes	48NN2A	2250	62°47'N	148°29'W	2,3,4,5	a,c	99	Petersburg Reservoir	32HH1	550	56°47'N	132°56'W	2,3,4,5	b
25	Monahan Flat	47001A	2710	63°18'N	147°39'W	2,3,4,5	a,c	100	Mitkof Island	32HH2	1050	56°46'N	132°56'W	2,3,4,5	b
26	Glearwater Lake	46NN1A	3100	62°59'N	146°58'W	2,3,4,5	a,c	101	Crystal Lake	32HH3	1375	56°36'N	132°50'W	2,3,4,5	b
27	Sanford River	45NN2A	2280	62°13'N	145°04'W	2,3,4,5	a,c	102	Harriet Top	31CC1	2000	55°29'N	131°37'W	3,4,5	b
28	St. Anne's Lake	46MM1A	1990	61°53'N	146°03'W	2,3,4,5	a,c	103	Hunt Saddle	31GG2	1500	55°30'N	131°37'W	3,4,5	b
29	Lake Louise	46NN2A	2400	62°17'N	146°30'W	2,3,4,5	a,c	104	Lake Shore	31GC3	660	55°29'N	131°36'W	3,4,5	b
30	Oshetna Lake	47NN1A	2950	62°23'N	147°29'W	2,3,4,5	a,c	105	Log Cabin (B.G.)	34KK1	2880	59°45'N	134°58'W	3,4,5	e
31	Little Nelchina	47NN2a	4160	62°07'N	147°36'W	2,3,4,5	a,c	106	Five Mile Camp	49RR1	400	65°55'N	149°48'W	2,3,4,5	i
32	Willow Airstrip	50MM2	150	61°45'N	150°03'W	2,3,4,5	a,c	107	Thirty Mile	50RR2a	1300	66°13'N	150°15'W	2,3,4,5	i
33	Independence Mine	49MM10	3300	61°45'N	149°25'W	3,4,5	a	108	Prospect Creek	50RR1	980	66°47'N	150°45'W	2,3,4,5	i
34	Sheep Mountain	47MM2	2900	61°47'N	147°30'W	3,4,5	a	109	Cold Foot Camp	50SS1	1000	67°16'N	150°10'W	1,2,3,4	i
35	Tsaina River	45MM4	1500	61°12'N	145°30'W	3,4,5	a	110	Dietrich Camp	49SS1A	1550	67°42'N	149°45'W	2,3,4,5	i
36	Worthington Glacier	45MM2	2400	61°10'N	145°45'W	3,4,5	a	111	Table Mountain	49SS3a	2200	67°58'N	149°45'W	2,3,4,5	i
37	Lowe River	45MM3	550	61°06'N	145°50'W	3,4,5	a	112	Toolik River	49TT1	3100	68°37'N	149°26'W	7	d
38	Valdez	46MM2	50	61°08'N	146°20'W	2,3,4,5	a	113	Sagwon	48UU1	1000	69°26'N	148°34'W	7	d
39	Wolverine Glacier (A)	48LL1	2130	60°23'N	148°54'W	1,2,4,5,6,7	g	114	Prudhoe Bay	48VV1	30	70°15'N	148°30'W	7	h
40	Wolverine Glacier (B)	48LL2	3610	60°25'N	148°55'W	2,3,4,5,6,7	g	115	Barrow	56WW1	15	71°20'N	156°40'W	7	h
41	Wolverine Glacier C	48LL3	4430	60°25'N	148°55'W	1,2,4,6,7	g	116	Meade River	57VV1	200	70°29'N	157°25'W	7	h
42	Gulkana Glacier A	45006	4590	63°15'N	145°29'W	2,3,4,5,6,7	g	117	Barter Island	43VV1	15	70°08'N	143°37'W	7	h
43	Gulkana Glacier B	45007	5480	63°17'N	145°26'W	2,3,4,5,6,7	g	118	Kavik River	47UU1	200	69°30'N	147°00'W	7	h
44	Gulkana Glacier G	45008	6360	63°19'N	145°29'W	5,6,7	g	119	Gandle	61QQ1	20	66°55'N	161°56'W	3,4	a,f
45	Mankomen Lake	44NN1	3050	63°00'N	144°32'W	2,3,4,5	a	120	Kugruk River	62QQ1	225	65°40'N	162°27'W	3,4	a,f
46	Tok Junction	43001	1650	63°18'N	143°00'W	2,3,4,5	a	121	Jago River	43UU1	SS0	69°42'N	143°36'W	7	h
47	Mentasta Pass	43NN1	2430	62°51'N	143°30'W	2,3,4,5	a	122	Chandalar Shelf	49TT2	3400	68°05'N	149°29'W	7	d
48	Haggard Creek	45NN1A	2540	62°42'N	145°28'W	2,3,4,5	a	123	Atigun Pass	49TT3	4900	68°08'N	149°35'W	7	d
49	Fielding Lake	45001A	3000	63°18'N	145°33'W	2,3,4,5	a	124	Devils Canyon	49NN2a	1350	62°49'N	149°18'W	2,3,4,S	a,c
50	Ft. Creely	45005	1420	63°57'N	145°45'W	1,2,3,4,5,7	a								
51	Granite Creek	45004	1240	63°57'N	145°24'W	1,2,3,4,5,7	a								
52	Big Delta	45PP1	980	64°14'N	145°58'W	2,3,4,5	a								
53	French Creek	46PP2MA	2010	64°43'N	146°40'W	2,3,4,5,7	a								
54	Little Salcha	46PP3	1500	64°38'N	146°44'W	2,3,4,5,7	a								
55	Caribou Mine	45PP2A	1115	64°40'N	145°40'W	2,3,4,5,7	a								
56	Munson Ridge	46PP1AP	3100	64°52'N	146°13'W	2,3,4,5,7	a								
57	Teuchet Creek	45PP3	1640	64°57'N	145°31'W	2,3,4,5	a								
58	Upper Chena	44QQ1AP	3000	65°07'N	144°55'W	2,3,4,5,7	a								
59	Lower Ghena	44QQ6	2000	65°04'N	144°59'W	2,3,4,5,7	a								
60	Monument Creek	45QQ2	1900	65°03'N	145°55'W	2,3,4,5	a								
61	Mt. Ryan	46QQ1AP	2950	65°16'N	146°07'W	2,3,4,5,7	a								
62	Little Chena	46QQ2AP	2200	65°08'N	146°32'W	2,3,4,5,7	a								
63	Colorado Creek	46PP4S	750	64°52'N	146°39'W	1,2,3,4,5,7	a								
64	Gleary Summit	47QQ1A	2230	65°03'N	147°24'W	1,2,3,4,5,7	a								
65	Yak Pasture	47PP1	540	64°52'N	147°55'W	2,3,4,5	a								
66	Bonanza Creek	48PP1	1150	64°45'N	148°20'W	2,3,4,5	b								
67	Haystack Mtn.	47QQ2	1950	65°08'N	147°38'W	2,3,4,5	d								
68	Caribou Creek	47QQ3	1440	65°09'N	147°35'W	2,3,4,5	d								
69	Poker Creek	47QQ4S	1025	65°08'N	147°32'W	2,3,4,5,7	d								
70	Farewell Lake	53NN1A	1090	62°34'N	153°35'W	3,4	a								
71	Lake Minchumina	52001A	730	63°53'N	152°18'W	3,4	a								
72	Wien Lake	51PP1A	1020	64°22'N	151°18'W	3,4	a								
73	Lake Todatonten	52RR1a	980	66°10'N	152°55'W	3,4	a								
74	Bettles Field	51RR1A	640	66°35'N	151°32'W	3,4	a								
75	Anaktuvuk Pass	51TT1A	2100	68°09'N	151°41'W	3,4	a								

LEGEND

* Numerals 1,2,3,4,5, and 6 refer to January 1, February 1, March 1, April 1, May 1, June 1, and 7 - for special dates.

- * Letters refer to Agency that secures the snow survey, as follows:
- * a. Soil Conservation Service
 - b. Forest Service
 - c. U.S. Army Corps of Engineers
 - d. U.S. Army Cold Regions Research & Engineering Lab
 - e. Alaska Power Administration
 - f. Bureau of Land Management
 - g. U.S. Ceological Survey
 - h. University of Alaska
 - i. Alaska Pipeline Office

- * Letters following the snow course no. refer to:
- * A. Snow course and aerial stadia marker
 - * a. Aerial stadia marker only
 - M. Soil Moisture Station
 - P. Precipitation Storage Gage
 - S. Snow Pillow

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